

WAVE POWER ENERGY CONVERTING UNIT

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- european: F03B13/14B2
Application number: JP19850030717 19850218
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Abstract of JP61190171

PURPOSE: To improve energy converting efficiency by providing at least two chambers in the direction of arriving wave and providing an opening/closing position to be connected to the open air, on one of said chambers which is positioned forward with respect to arriving wave. **CONSTITUTION:** An opening 41 which is formed underwater on a part faced to arriving wave, and a second opening 51, for a first chamber 31 are provided, and an air turbine 71, and a generator 81 are provided in a first duct 61. An opening/closing device 13 is provided on an open-air connecting part 12 which is formed in the first chamber 31, allowing the open air to be connected to the first chamber 31. Accordingly, when the wave length of a wave is short, the opening/closing device 13 is opened enabling the first chamber 31 to function as a chamber having a depth of smaller dimension, to rotate the air turbine efficiently.

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*Not buoyant.
Separate flow paths to
separate turbines.*

PATENT ABSTRACTS OF JAPAN

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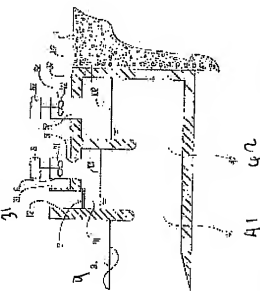
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 (22)Date of filing : 18.02.1985 (72)Inventor : HIRAI TETSUO
 SEKIYA SHIN

(54) WAVE POWER ENERGY CONVERTING UNIT

(57)Abstract:

PURPOSE: To improve energy converting efficiency by providing at least two chambers in the direction of arriving wave and providing an opening/closing position to be connected to the open air, on one of said chambers which is positioned forward with respect to arriving wave.

CONSTITUTION: An opening 41 which is formed underwater on a part faced to arriving wave, and a second opening 51, for a first chamber 31 are provided, and an air turbine 71, and a generator 81 are provided in a first duct 61. An opening/closing device 13 is provided on an open-air connecting part 12 which is formed in the first chamber 31, allowing the open air to be connected to the first chamber 31. Accordingly, when the wave length of a wave is short, the opening/closing device 13 is opened enabling the first chamber 31 to function as a chamber having a depth of smaller dimension, to rotate the air turbine efficiently.



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